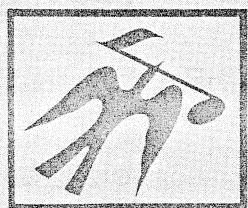


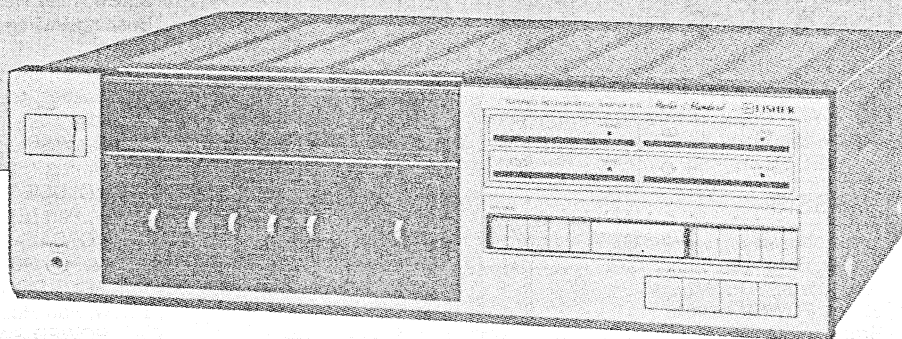
SERVICE MANUAL



FISHER

CA-75

STEREO INTEGRATED AMPLIFIER



SPECIFICATIONS

Output Power

Sine wave at 1 kHz, 0.9% THD

8 ohm load 45 W

Frequency Response

Phono(RIAA 30-1500 Hz±1.0dB

AUX(-3dB).....10—60000 Hz

Input Sensitivity/Impedance

Tuner, Tape, Aux.....150mV/47 k ohms

Phono.....2.5mV/47 k ohms

Overload Level at Phono 120 mV

Tape Rec. Output Level 150 mV

Graphic Equalizer

50 Hz.....±10dB

250 Hz.....±10dB

1kHz.....±10dB

4.5kHz.....±10dB

10kHz.....±10dB

Loudness Contour

at 100Hz.....+ 9dB

at 10kHz.....+ 3dB

Low Filter Response (-6dB/Oct.) 40Hz

Signal-to-Noise Ratio (IHF-A Weighted)

Tuner, Tape, Aux.....90dB

Phono.....75dB

Power Source AC120/220/240V,
50/60Hz

Dimensions (approx.).....(W)400x(H)118x
(D)281mm

NOTE : Specifications are subject to change without prior notice.

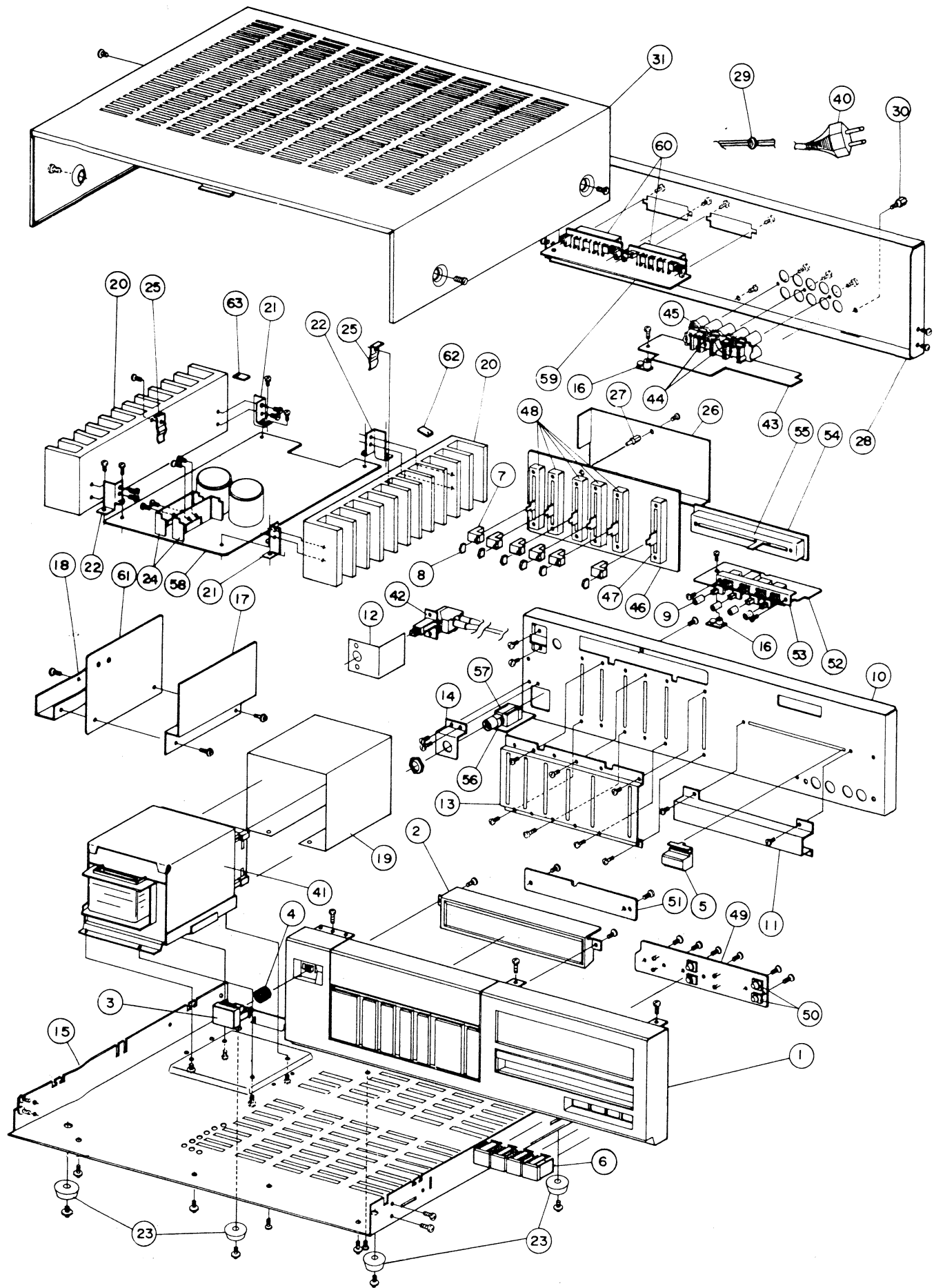
PARTS LIST

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
PACKAGE PARTS				
		R-4777707	Instruction manual	1
		R-357556	Polyethylene bag, AC cord	1
		R-357754	Polyethylene bag, Set	1
		R-4175377	Styro-foam cushion, Front	1
		R-4175378	Styro-foam cushion, Rear	1
		R-4077018	Individual carton	1
		R-4773695D	Guarantee card	1
		R-357562-1A	Polyethylene bag, Instruction manual	1
		R-4775652	Label	4
		R-4776311-7	Caution sheet	1
		R-4776800	Caution label	1
CABINET				
1		R-A700527	Front panel assembly	1
			Screw, Bind Hd., B-tight, 3x6	3
			Screw, Washer Hd., B-tight, 3x6	3
2		R-A700528	Bracket assembly, LED	1
			Screw, Bind Hd., B-tight, 3x6	2
			Screw, Bind Hd., B-tight, 3x8	1
3		R-3975553-1	Knob, POWER	1
4		R-1571822	Coil spring, POWER knob	1
5		R-3976107	Knob, VOLUME	1
6		R-3976108	Knob, FUNCTION	4
7		R-3976104	Lever, EQ, BALANCE knob	6
8		R-3975326-1	Knob, EQ, BALANCE	6
9		R-4173330	Cushion, FUNCTION knob	4
			Screw, Bind Hd., B-tight, 3x8	5
			SWITCH P.C.B. mtg.	
			Screw, Bind Hd., B-tight, 3x8	2
			LED P.C.B. mtg.	
CHASSIS				
10		R-1275062	Front chassis	1
			Screw, Bind Hd., B-tight, 3x6	7
11		R-2673805	Back plate, VOLUME	1
12		R-367463	Sheet, POWER switch	1
13		R-1275079	Bracket, EQ, BALANCE switch	1
14		R-1271912	Bracket, Headphone jack mtg.	1
			Screw, Bind Hd., B-tight, 3x6	2
15		R-1274964-2	Bottom lid	1
16		R-327491	Bracket, P.C.B. mtg.	2
			Screw, Bind Hd., B-tight, 3x8	2
			Screw, Washer Hd., B-tight, 3x8	2
17		R-367466	Sheet, FILTER P.C.B.	1
18		R-1274098	Bracket, FILTER P.C.B.	1
			Screw, Bind Hd., B-tight, 3x6	1
			Screw, Washer Hd., B-tight, 3x6	2
19		R-1275188	Shield plate	1
20		R-2770032	Heat sink	2
			Screw, Washer Hd., B-tight, 3x8	4
21		R-1274779	Bracket, Heat sink	2
22		R-1274780	Bracket, Heat sink	2
			Screw, Bind Hd., B-tight, 3x6	4
			Screw, Bind Hd., B-tight, 3x6	4
			Screw, Bind Hd., B-tight, 3x6	4
			Screw, Washer Hd., B-tight, 3x8	2
23		R-3975685	Base	4
			Screw, Washer Hd., B-tight, 3x6	4
24		R-2673779	Heat sink, IC	2
			Screw, Bind Hd., B-tight, 3x6	4
25		R-1274972	Bracket, TR	2
			Screw, Bind Hd., B-tight, 3x6	2
26		R-1275172	Shield plate	1
			Screw, Bind Hd., B-tight, 3x6	2
27		R-377095	Spacer	1
			Screw, Pan Hd., B-tight, 3.5x8	
28		R-1275076	Rear chassis	1
			Screw, Bind Hd., B-tight, 3x6	6
29		R-377070	Bushing, AC cord	1
		R-437491	Sheet	3
30		R-1570437	Special screw, GND	1
			Flat washer, Metal, 3x8x1	1
31		R-1273440-2	Top lid	1
			Screw, Washer Hd., S-tight, 4x6	4
			Screw, Pan Hd., 3x4	2
			VOLUME P.C.B. mtg.	
			Screw, Pan Hd., 3x4	7
			EQ, BALANCE SW mtg.	
			Screw, Pan Hd., 3x4	2
			FUNCTION SW mtg.	
			Screw, Pan Hd., 3x4	2
			POWER SW mtg.	
			Screw, Washer Hd., S-tight, 4x8	4
			Power transformer mtg.	
			Screw, Bind Hd., B-tight, 3x8	4
			SPEAKER TERMINAL mtg.	
			Screw, Bind Hd., B-tight, 3x8	3
			RCA TERMINAL mtg.	

NOTES : 1. Part orders must contain Model Number, Part Number and Description.

2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

EXPLODED VIEW

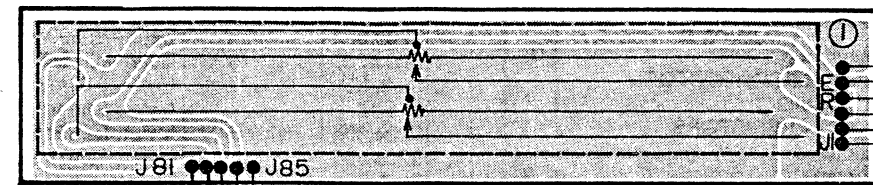


WIRING DIAGRAM

GEQ P.C.B. Bottom

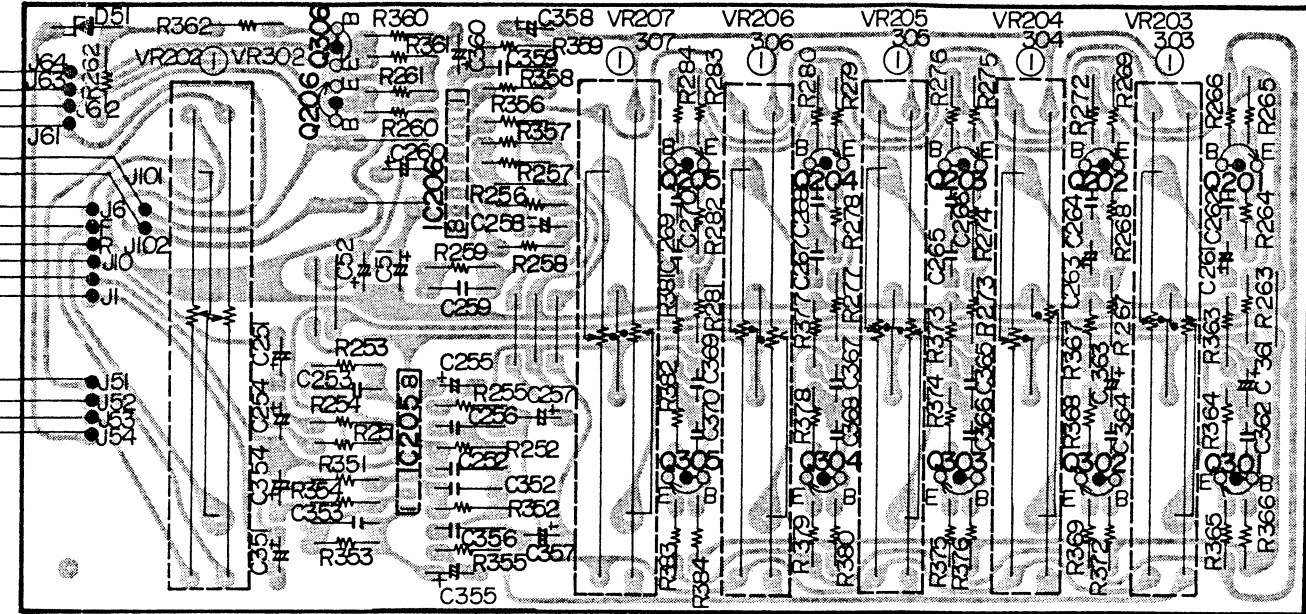
VOLUME P.C.B. Bottom

CP6
SPEAKER SWITCH P.C.B.
CP2
FUNCTION P.C.B.

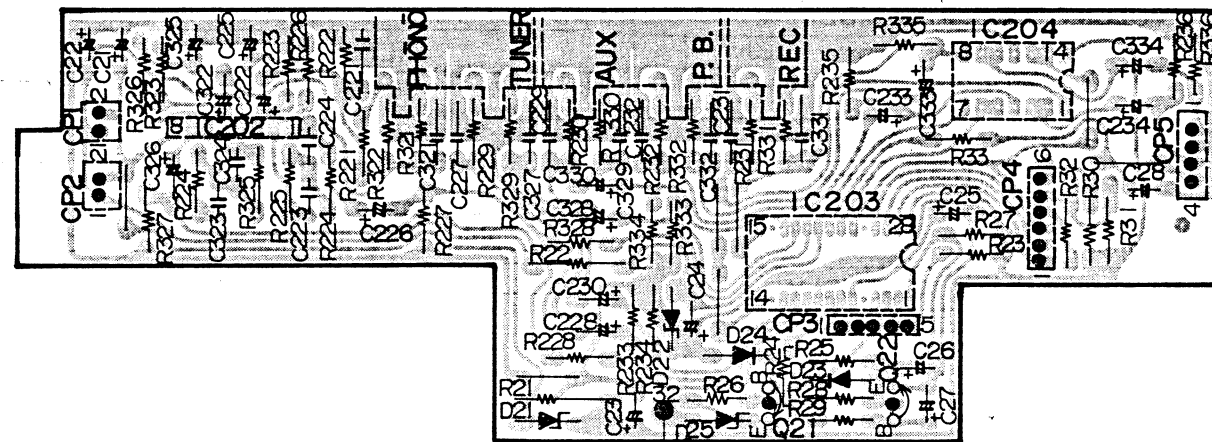


SPEAKER SWITCH P.C.B.
CP7

CP5
FUNCTION P.C.B.

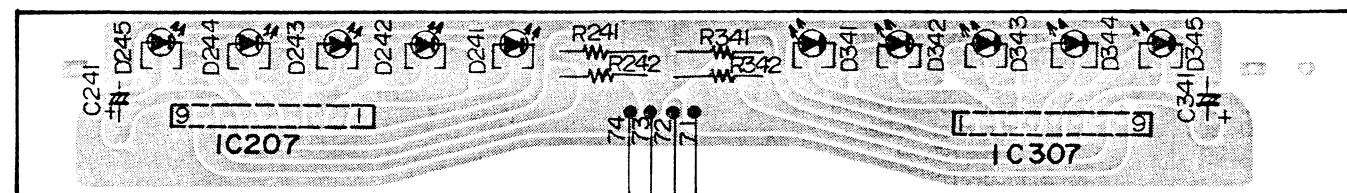


FUNCTION P.C.B. Bottom



MAIN P.C.B.

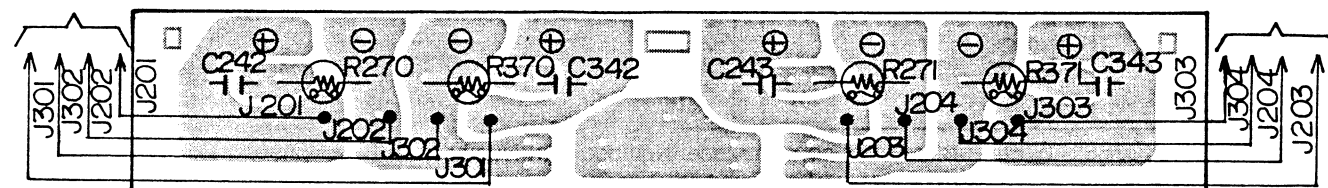
LED P.C.B. Bottom



SPEAKER SWITCH P.C.B.
CP7

SPEAKER P.C.B. Bottom

SPEAKER
SWITCH P.C.B.



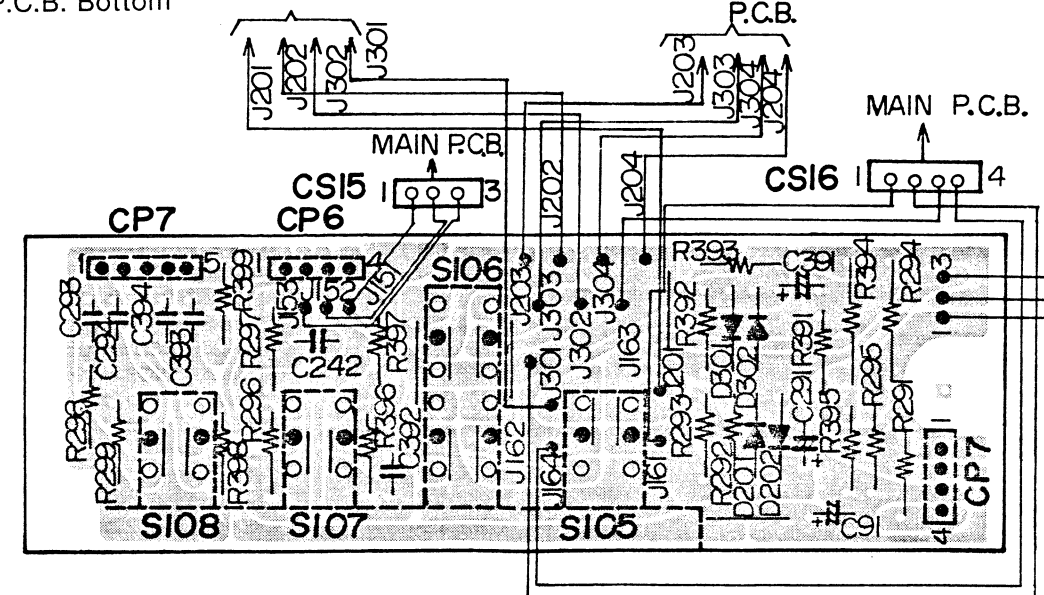
SPEAKER
SWITCH P.C.B.

SPEAKER SWITCH
P.C.B. Bottom

SPEAKER P.C.B.

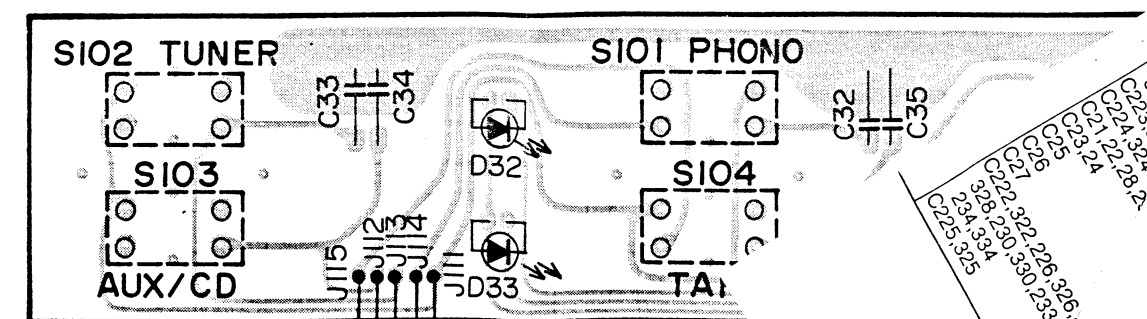
SPEAKER
P.C.B.

MAIN P.C.B.



HEADPHONE P.C.B.
CP9

KEY P.C.B. Bottom



FUNCTION P.C.B.
CP3

F

NOTE:
C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814, C815, C816, C817, C818, C819, C820, C821, C822, C823, C824, C825, C826, C827, C828, C829, C830, C831, C832, C833, C834, C835, C836, C837, C838, C839, C840, C841, C842, C843, C844, C845, C846, C847, C848, C849, C850, C851, C852, C853, C854, C855, C856, C857, C858, C859, C860, C861, C862, C863, C864, C865, C866, C867, C868, C869, C870, C871, C872, C873, C874, C875, C876, C877, C878, C879, C880, C881, C882, C883, C884, C885, C886, C887, C888, C889, C890, C891, C892, C893, C894, C895, C896, C897, C898, C899, C900, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C912, C913, C914, C915, C916, C917, C918, C919, C920, C921, C922, C923, C924, C925, C926, C927, C928, C929, C930, C931, C932, C933, C934, C935, C936, C937, C938, C939, C940, C941, C942, C943, C944, C945, C946, C947, C948, C949, C950, C951, C952, C953, C954, C955, C956, C957, C958, C959, C960, C961, C962, C963, C964, C965, C966, C967, C968, C969, C970, C971, C972, C973, C974, C975, C976, C977, C978, C979, C980, C981, C982, C983, C984, C985, C986, C987, C988, C989, C990, C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000.

PARTS LIST (CONTINUED)

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
CHASSIS ELECTRICAL PARTS				
40	PT1	Δ R-S37089-1	AC cord	1
41		Δ R-W770443	Power transformer	1
42	S1	Δ R-S47720	Push switch	1
		Δ R-367300	Cover	1
		R-S17399-1	Wire band	12
		R-S17269	Wire fixer	1
		R-237113	Lug	1
CS1,2		R-377142-2	Housing	2
CS3,8		R-377142-5	Housing	2
CS4		R-377142-6	Housing	1
CS5,6,7		R-377142-4	Housing	3
CS9,15		R-377142-3	Housing	2
		R-257295-1	Terminal, Housing	38
CS16		R-377108-4	Housing, 4P	1
		R-257265	Terminal, Housing	4
FR10		R-S37416-5	PC joiner	1
SEMICONDUCTORS				
D31,32,33,34			LED, SLP-238C-50	4
D241~245,341~345			LED, SLP-155B	10
FUNCTION P.C.B. ASSEMBLY				
43		R-A700867	Circuit board assembly, FUNCTION	1
44	JK1,2	R-S17514-4	Terminal plate	2
45	JK3	R-S17634-1	Terminal plate	1
	CP1,2	R-S27722-2	Plug	2
	CP3	R-S27634-5	Plug	1
	CP4	R-S27634-6	Plug	1
	CP5	R-S27634-4	Plug	1
		R-257277	Terminal	1
SEMICONDUCTORS				
IC202			Ope. Amp., M5218L	1
IC203			C-MOS, LC7815	1
IC204			C-MOS, uPD4066BC	1
Q21,22			Transistor, 2SA608 or JA101R	2
D21,22			Zener diode, GZA9.1X	2
D23,24			Diode, DS-442	2
D25			Zener diode, GZA33X	1
RESISTORS				
(Resistors are of carbon type, ±5% allowance and 1/8W unless otherwise noted.)				
R23			1.2 k ohm	1
R24,222,322,223,323,227,327			100 k ohm	7
R34			10 k ohm	1
R26			27 k ohm	1
R27			1 M ohm	1
R228,328,229,329,230,330,231,331,232,332			1 k ohm	10
R29			22 k ohm	1
R33			12 k ohm	1
R221,321			2.2 k ohm	2
R224,324			56 k ohm	2
R225,325,35			4.7 k ohm	3
R226,326			100 ohm	2
R233,333,234,334,235,335			470 k ohm	6
R30,31			Solid, 820 ohm, ±10%, 1/2W	2
R21,22			Metal oxide film, 120 ohm, ±5%, 1W	2
CAPACITORS				
C221,321			Ceramic, 470pF, ±10%, 50V	2
C227,327,229,329,231,331,232,332			Ceramic, 220pF, ±10%, 50V	8
C223,323			Mylar, 0.056mfd, ±5%, 50V	2
C224,324			Mylar, 0.016mfd, ±5%, 50V	2
C21,22,28,29			Electrolytic, 10mfd/16V	4
C23,24			Electrolytic, 0.1mfd/50V	2
C25			Electrolytic, 0.33mfd/50V	1
C26			Electrolytic, 0.47mfd/50V	1
C27			Electrolytic, 33mfd 16V	1
C222,322,226,326,228,328,230,330,233,333,234,334			Electrolytic, 3.3mfd/25V	12
C225,325			Electrolytic, 220mfd/6.3V	2

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

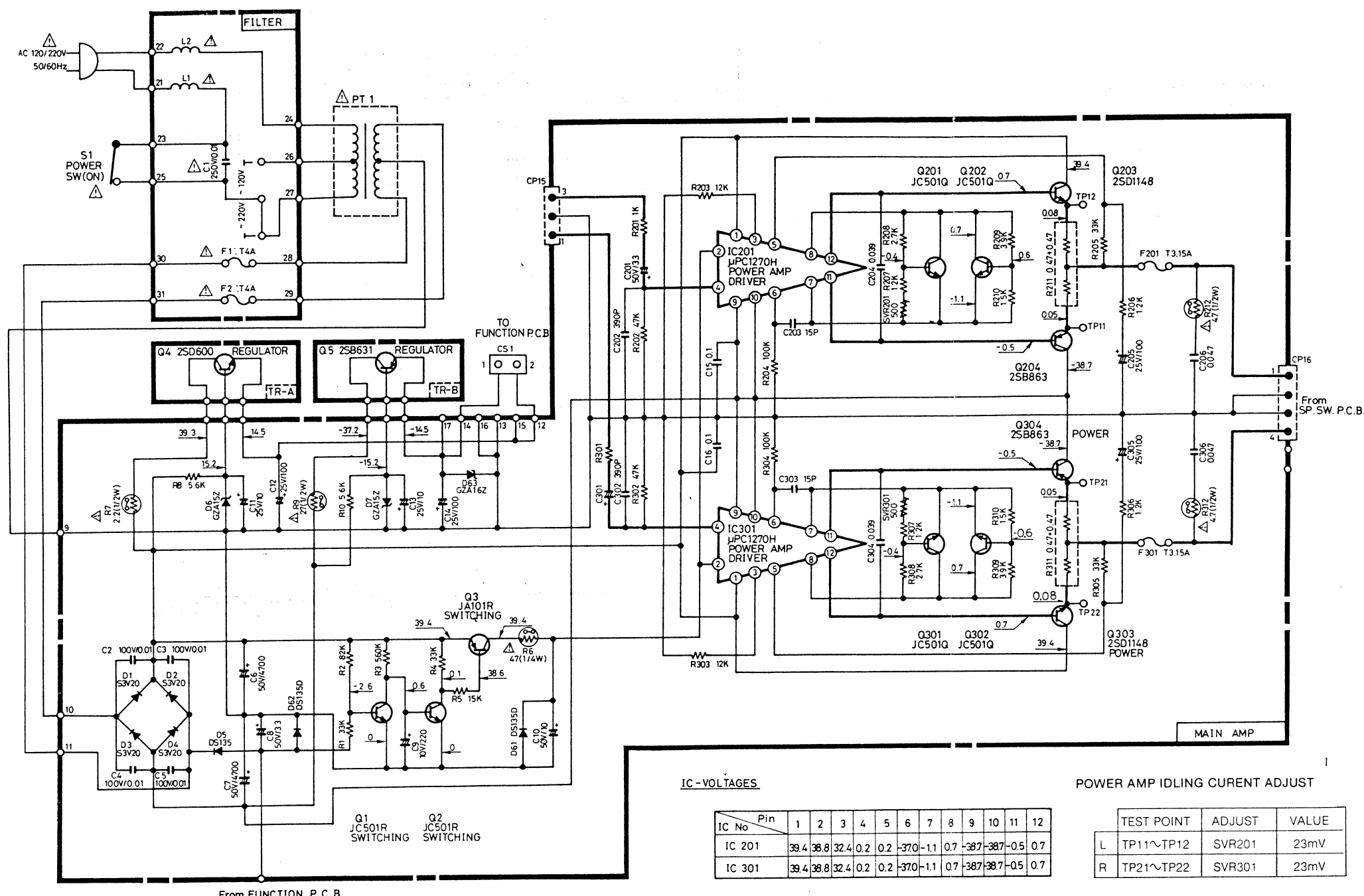
PARTS LIST (CONTINUED)

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
SPEAKER SWITCH P.C.B. ASSEMBLY				
52		R-A700870	Circuit board assembly, SPEAKER SWITCH	1
53	S105,106,107,108	R-S470103	Push switch	1
	CP6,7	R-S27634-4	Plug	2
	CP8	R-S27634-5	Plug	1
		R-257327	Terminal	12
D201,301,202,302			Diode, DS442	4
SEMICONDUCTORS				
(Resistors are of carbon type, ±5% allowance and 1/8W unless otherwise noted.)				
R291,391			4.7 k ohm	2
R293,393			39 k ohm	2
R295,395			10 k ohm	2
R296,396,297,397			470 k ohm	4
R298,398			5.6 k ohm	2
R299,399			330 k ohm	2
R294,394			Metal oxid film, 390 ohm, ±5%, 1W	2
CAPACITORS				
C294,394			Ceramic, 220pF, ±10%, 50V	2
C292,392			Mylar, 0.082mfd, ±10%, 50V	2
C293,393			Mylar, 0.047mfd, ±10%, 50V	2
C91			Electrolytic, 10mfd/16V	1
C291,391			Electrolytic, 0.22mfd/50V	2
VOLUME P.C.B. ASSEMBLY				
54		R-A700871	Circuit board assembly, VOLUME	1
55	VR201,301	R-R160727	Slide VR	1
HEADPHONE P.C.B. ASSEMBLY				
56		R-A700872	circuit board assembly, HEADPHONE	1
57	JK4	R-S27542-2	Jack	1
	CP9	R-S27634-3	Plug	1
MAIN AMP. P.C.B. ASSEMBLY				
58	F201,301	R-A700873	Circuit board assembly, MAIN AMP.	1
		R-S17286	Fuse, 3.15A	2
		Δ R-S17024	Fuse holder	4
	CP15	R-S27634-3	Plug	1
	CP16	R-S27531-4	Plug	1
	SVR201,301	R-R110737	Preset resistor, 500 ohm	2
		R-S7715	Mica	4
	R211,311	R-R7763	Resistors, 0.47 ohmx2, ±10%, 5Wx2	2
SEMICONDUCTORS				
IC201,301			IC, uPC1270H	2
Q1,2			Transistor, JC501R	2
Q3			Transistor, JA101R	1
Q201,202,301,302			Transistor, JC501Q	4
Q203,303			Transistor, 2SD1148	2
Q204,304			Transistor, 2SB863	2
D1,2,3,4			Diode, S3V20	4
D5			Δ Diode, DS135D-KB1	1
D6,7			Zener diode, GZA15Z	2
D61,62			Δ Diode, DS135D or 1SR35-200	2
D63			Zener diode, GZA16Z	1
RESISTORS				
(Resistors are of carbon type, ±5% allowance and 1/8W unless otherwise noted.)				
R1,2			82 k ohm	2
R3			560 k ohm	1
R4,205,305			33 k ohm	3
R5			15 k ohm	1
R8,10			5.6 k ohm	2
R201,301			1 k ohm	2
R202,302			47 k ohm	2
R203,303			12 k ohm	2
R204,304			100 k ohm	2
R206,306,210,310			1.5 k ohm	4
R207,307			1.2 k ohm	2

NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

Key No.	Ref.No.	PART No.	DESCRIPTION	Q'ty
	R208,308		2.7 k ohm	2
	R209,309		3.9 k ohm	2
	R6		Fuse, 47 ohm, ±2%, 1/4W	1
	R7		Fuse, 2.2 ohm, ±5%, 1/2W	1
	R9		Fuse, 27 ohm, ±5%, 1/2W	1
	R212,312		Fuse, 4.7 ohm, ±5%, 1/2W	2
CAPACITORS				
C202,302			Ceramic, 390pF, ±10%, 50V	2
C203,303			Ceramic, 15pF, ±5%, 50V	2
C2,3,4,5			Mylar, 0.01mfd, ±20%, 100V	4
C15,16			Mylar, 0.1mfd, ±20%, 50V	2
C204,304			Mylar, 0.039mfd, ±20%, 50V	2
C206,306			Mylar, 0.047mfd, ±20%, 50V	2
C6,7			Electrolytic, 4700mfd/50V	2
C8,201,301			Electrolytic, 3.3mfd/50V	3
C9			Electrolytic, 220mfd/10V	1
C10			Electrolytic, 10mfd/50V	1
C11,13			Electrolytic, 10mfd/25V	2
C12,14,205,305			Electrolytic, 100mfd/25V	4
SPEAKER P.C.B. ASSEMBLY				
59		R-A700610	Circuit board assembly, SPEAKER	1
60		R-S17591	Terminal plate	2
RESISTORS				
	R270,370,271,371		Fuse, 4.7 ohm, ±5%, 1/2W	4
CAPACITORS				
	C242,342,243,343		Mylar, 0.047mfd, ±20%, 50V	4
FILTER P.C.B. ASSEMBLY				
61	F1,2	R-A700611	Circuit board assembly, FILTER	1
		Δ R-S17432	Fuse	2
		R-S17024	Fuse holder	4
		R-237188	Lug	7
	L1,2	R-W17004	Choke coil, 40uH	2
	C1 or Δ	R-C97019	Capacitors, 0.01mfd, AC125V	1
		Δ R-C97023	Capacitors, 0.01mfd, AC400V	1
TR-A P.C.B. ASSEMBLY				
62		R-A700612	Circuit board assembly, TR-A	1
	Q4	R-S7708	Mica	1
			Transistor, 2SD600	1
TR-B P.C.B. ASSEMBLY				
63		R-A700613	Circuit board assembly, TR-B	1
	Q5	R-S7708	Mica	1
			Transistor, 2SB631	1

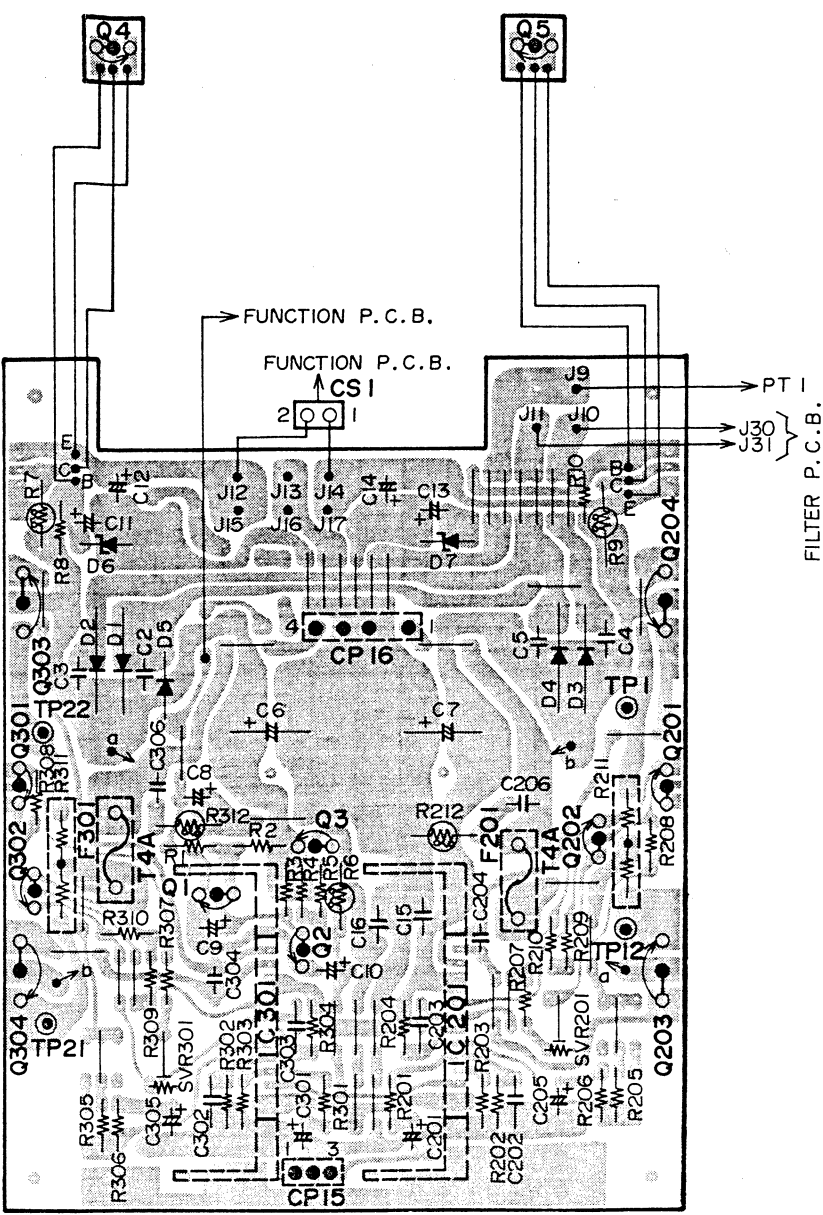
SCHEMATIC DIAGRAM



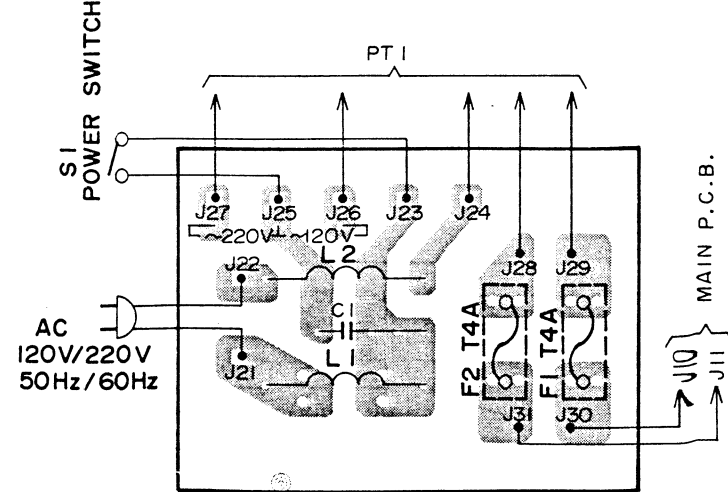
WIRNG DIAGRAM

TR-A P.C.B. Bottom

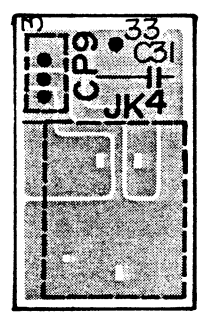
TR-B P.C.B. Bottom



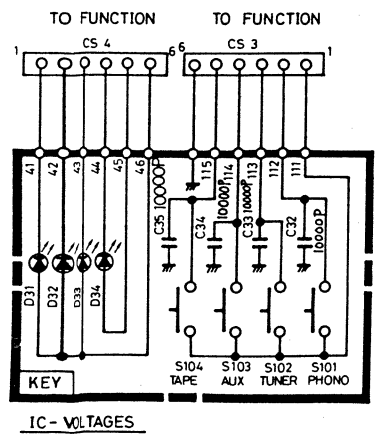
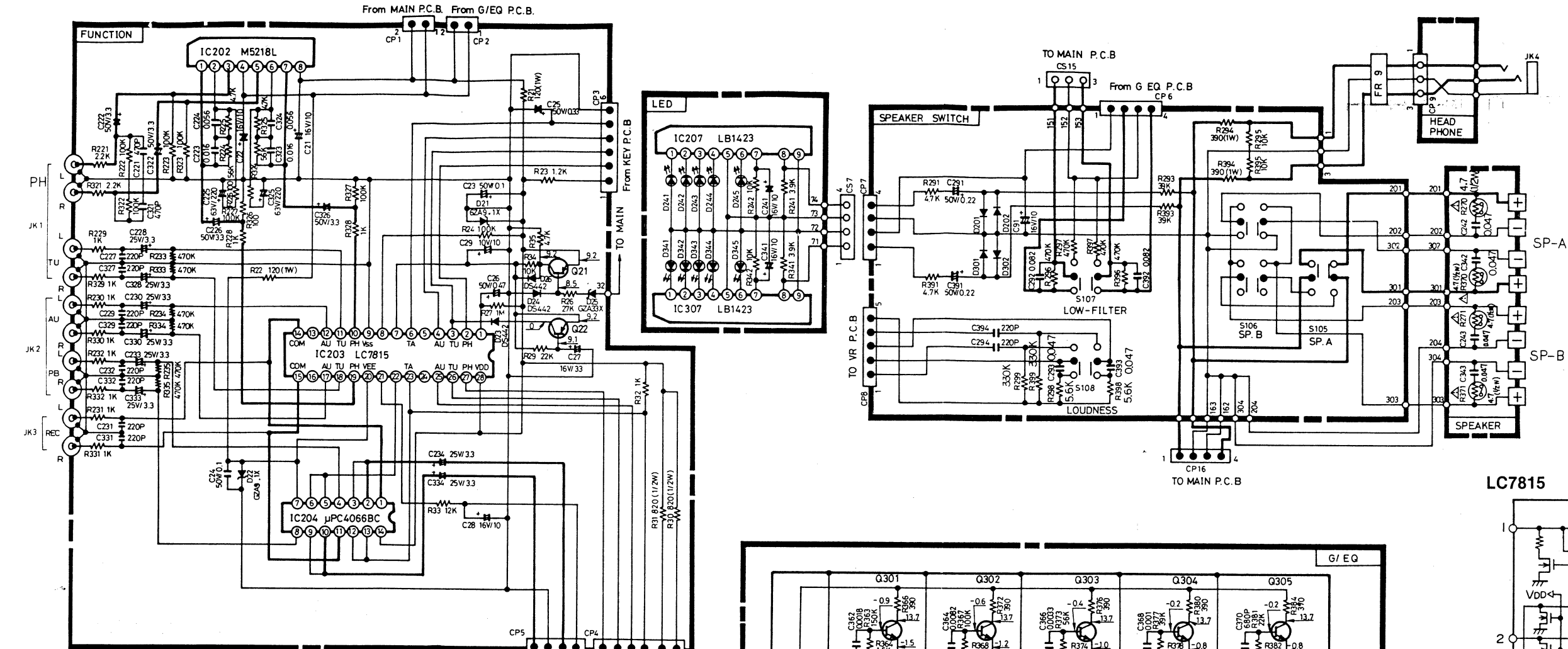
FILTER P.C.B. Bottom



HEADPHONE P.C.B. Bottom



SCHEMATIC DIAGRAM



IC No	Pin	1	2	3	4	5	6	7	8
IC 202		0	0	0	14.6	0	0	0	14.6
IC 205		0	0	0	14.6	0	0	0	14.6
IC 206		0	0	0	14.6	0	0	0	14.6

